

ABSTRACT OF THE DISCLOSURE

A biomedical member having high strength, high toughness and high hardness and an artificial joint that uses the same are provided. In addition, a biomedical member that exhibits high wear resistance even in in vivo environment and an artificial joint are provided.

Such a composite ceramic is used that contains 65% by weight or more Al_2O_3 , 4 to 34% by weight of ZrO_2 and 0.1 to 4% by weight of SrO , while Sr forms a solid solution with part of the ZrO_2 grains. The composite ceramics further contains TiO_2 , MgO and SiO_2 as sintering additives, while controlling the amounts to 0.20% by weight or more SiO_2 , 0.22% by weight or more TiO_2 and 0.12% by weight or more MgO , and the total amount of SiO_2 , TiO_2 and MgO within a range from 0.6 to 4.5% by weight.